

Leica FlexLine TS07 Manual Total Station



FlexLine



LEICA FLEXLINE TS07 MANUAL TOTAL STATION

- **Work faster:** measure more points per day due to faster measurement and stakeout procedures (endless drives, trigger key, drives on both sides, pinpoint EDM and more), supported by our comprehensive and user-friendly Leica FlexField software.
- **Use it trouble-free:** increase productivity and minimise downtime by relying on instruments that simply work and come with a global service and support network.
- **Choose products that are built to last:** FlexLine operates with the same high level of quality even after years of use under harsh conditions (like mud, dust, blowing rain, extreme heat and cold).
- **Control your investment:** reliability, speed and accuracy ensure a lower investment over the product lifetime and a higher resell value.
- **Save time with AutoHeight:** measure, read and set the instrument height automatically with this revolutionary feature (optional). Errors are minimised and the setup process onsite is faster.

The Leica FlexLine TS07 high-quality, manual total station is based on a proven product concept that has been revolutionising the world of measurement and survey for nearly 200 years. The instrument is equipped with a comprehensive application-based software package - Leica FlexField software - that enables most survey and stakeout tasks to be carried out easily and efficiently. The new FlexLine manual total stations work reliably and deliver accurate results even in harsh environments.

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- when it has to be **right**

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ANGULAR MEASUREMENT		
Accuracy HZ and V	Absolute, continuous, diametrical ¹ <ul style="list-style-type: none">■ Display resolution: 0.1" (0.1 mgon)■ Quadruple axis compensation■ Compensator setting accuracy²: 0.5" / 1" / 1.5" / 2"■ Compensator range: +/- 4'■ Electronic level resolution: 2"■ Circular level sensitivity: 6' / 2 mm	1" / 2" / 3" / 5" / 7" ✓
DISTANCE MEASUREMENT		
Range	<ul style="list-style-type: none">■ Prism (GPR1, GPH1P): 1.5 m to 3.500 m■ Prism GPR1 (Long Range mode) > 10.000 m■ Non-Prism / Any surface■ R500³■ R1000⁴	✓ ✓ •
Accuracy / Measurement time	<ul style="list-style-type: none">■ Single prism■ 1 mm + 1.5 ppm (typical 1 - 2 s)■ Non-Prism / Any surface■ 0 m - 500 m: 2 mm + 2 ppm (typical 3 - 6 s)■ > 500 m: 4 mm + 2 ppm (typical 3 - 6 s)■ Display resolution: 0.1 mm	✓ ✓ ✓ ✓ ✓
Laser dot size	<ul style="list-style-type: none">■ At 30 m: 7 mm x 10 mm■ At 50 m: 8 mm x 20 mm■ At 100 m: 16 mm x 25 mm	✓
Telescope	<ul style="list-style-type: none">■ Magnification: 30x■ Resolving power: 3"■ Focusing range: 1.55 m / 5.08 ft to infinity■ Field of view: 1°30' / 1.66 gon / 2.7 m at 100 m	✓
GENERAL		
Display and keyboard		3.5" (inch), 320 x 240 px QVGA, colour, touch, 28 keys ^{5b}
	2 nd keyboard	•
	Key illumination	✓
Operation	<ul style="list-style-type: none">■ Endless drives for HZ & V■ Trigger-Key: user definable with 2 functions	✓
Power management	<ul style="list-style-type: none">■ Exchangeable Lithium-Ion battery⁶■ Operating time with GEB361■ Operating time with GEB331	up to 30 h up to 15 h
	<ul style="list-style-type: none">■ External supply voltage■ Nominal voltage 13.0 V DC & 16 W max	✓
Data storage	<ul style="list-style-type: none">■ Internal memory: 2 GB Flash■ Memory card: SD card 1 GB or 8 GB■ USB memory stick: 1 GB	✓
Processor	<ul style="list-style-type: none">■ TI OMAP4430 1GHz Dual-core ARM® Cortex™ A9 MPCore™■ Operating system – Windows EC7	✓
Interfaces	<ul style="list-style-type: none">■ RS232⁷, USB device■ Bluetooth®⁸, WLAN⁹■ Mobile Data sidecover: LTE-Modem for internet access	✓ ✓ •
Guide Light (EGL)	<ul style="list-style-type: none">■ Working range: 5 m to 150 m■ Position accuracy: 5 cm at 100 m■ Wavelength red /orange: 617 nm / 593 nm	✓ (R1000)
Laser plummet (Laserclass 2)	<ul style="list-style-type: none">■ Accuracy■ Plumb line deviation: 1.5 mm at 1.5 m instrument height■ Diameter of laser point: 2.5 mm at 1.5 m instrument height	✓
AutoHeight module for automatic instrument height measurement (Laserclass 2)	<ul style="list-style-type: none">■ Accuracy■ Distance accuracy: 1.0 mm (1 Sigma)■ Distance range: 0.7 m to 2.7 m	•
Weight		4.3 - 4.5 kg
Environmental specifications ¹⁰	<ul style="list-style-type: none">■ Working temperature range: -20°C to +50°C■ Arctic version: -35°C to +50°C■ Dust / Water (IEC 60529) / Humidity: IP66 / 95%, non-condensing■ Military Standard 810G, Method 506.5	✓ • ✓ ✓

Legend:

1. 1" (0.3 mgon), 2" (0.6 mgon), 3" (1 mgon), 5" (1.5 mgon), 7" (2 mgon)
2. Angular accuracy / Compensator setting accuracy: 1" / 0.5" (0.2 mgon), 2" / 0.5" (0.2 mgon), 3" / 1.0" (0.3 mgon), 5" / 1.5" (0.5 mgon), 7" / 2.0" (0.7 mgon)
3. R500: Kodak gray 90% reflective (1.5 m to >500 m), Kodak gray 18% reflective (1.5 m to >200 m)
4. R1000: Kodak gray 90% reflective (1.5 m to >1000 m), Kodak gray 18% reflective (1.5 m to >500 m)
5. (a) Face I standard, (b) Face I standard, face II optional

6. Distance/angle measurement every 30 seconds
7. 5 PIN Lemo-0 for power, communication and data transfer
8. For communication and data transfer
9. For internet access, communication and data transfer, WLAN range up to 200 m
10. Storage temperature: -40°C to +70°C

✓ = Included • = Optional ✗ = Not available

Laser radiation, avoid direct eye exposure.
Class 3R laser product in accordance with IEC 60825-1:2014.

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